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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,807	07/06/2006	David Paul Humphreys	CELL-0307	6569
	7590 11/07/2007 WACHDIIDNIII D	EXAMINER		
WOODCOCK WASHBURN LLP CIRA CENTRE, 12TH FLOOR			BLANCHARD, DAVID J	
2929 ARCH ST	FREET IA, PA 19104-2891	·	ART UNIT	PAPER NUMBER
	.,		. 1643	
			MAIL DATE	DELIVERY MODE
			11/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/562,807	HUMPHREYS ET AL.
	Office Action Summary	Examiner	Art Unit
		David J. Blanchard	1643
	The MAILING DATE of this communication or Reply	appears on the cover sheet with	h the correspondence address
WHI( - Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed  THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status	•		
1)🛛	Responsive to communication(s) filed on <u>06</u>	<u>6 July 2006</u> .	
2a)□	This action is <b>FINAL</b> . 2b) T	his action is non-final.	
3)	Since this application is in condition for allow	wance except for formal matte	rs, prosecution as to the merits is
	closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.
Disposit	ion of Claims		
5) [ 6) [ 7) [	Claim(s) <u>1-30</u> is/are pending in the application 4a) Of the above claim(s) is/are without Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) <u>1-30</u> are subject to restriction and/	drawn from consideration.	,
Applicat	ion Papers		
9)[	The specification is objected to by the Exam	niner.	
10)	The drawing(s) filed on is/are: a) a	accepted or b) objected to b	y the Examiner.
	Applicant may not request that any objection to t	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·	
Priority (	under 35 U.S.C. § 119		
а)	Acknowledgment is made of a claim for fore  All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur See the attached detailed Office action for a	ents have been received. ents have been received in Ap priority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage
	Joo and attached detailed Office action for a	not of the certified copies flot i	eceiveu.
A44a-L	4(-)		
Attachmen  1) Notice	nt(s) ce of References Cited (PTO-892)	4) Thianian C.	ummary (PTO-413)
2) 🔲 Notic 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)	Immary (P10-413) //Mail Date formal Patent Application

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature recited in claim 1 is an antibody fragment comprising a Fab or Fab' fragment that has been modified by replacement of either the interchain cysteine of CH1 or the interchain cysteine of CL with another amino acid. In view of this Humphreys D. P (WO 99/15549, 4/1/1999, IDS reference 43 filed 10/10/2006) reads on the claim. Humphreys D. P teach a F(ab')2 fragment wherein the interchain cysteines of Ckappa and CH1 have been substituted with serine residues and the fragment is attached to at least one effector fragment (see examples and pp. 8-10). Therefore the technical feature recited in claim 1 is not special. Accordingly the groups are not so linked as to form a single general concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-18 and 27-30, drawn to an antibody fragment comprising a Fab or Fab' fragment modified by attachment of at least one effector molecule and both interchain cysteines of CH1 and CL with another amino acid.

Group II, claims 19-26, drawn to a method of producing an antibody fragment comprising a Fab or Fab' to which at east one effector molecule is attached comprising treating an antibody Fab or Fab' fragment in which both the interchain cysteine of CL and the interchain cysteine of CH1 have been replaced with another amino acid with a reducing agent generating a free thiol group and reacting the treated fragment with an effector molecule.

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2. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: As set forth above, in view of the teaching of Humphreys D. P., the groups are not so linked as to form a single general concept under PCT Rule 13.1 because the technical feature of claim 1 is not special.

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the antibody fragment of Group I can be produced recombinantly in addition to the chemical method of Group II, which differ in the method steps, parameters and reagents used.

- 3. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
  - (a) the inventions have acquired a separate status in the art in view of their different classification;
  - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
  - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
  - (d) the prior art applicable to one invention would not likely be applicable to another invention;
  - (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier.

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Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Blanchard whose telephone number is (571) 272-0827. The examiner can normally be reached at Monday through Friday from 8:00 AM to 6:00 PM, with alternate Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, can be reached at (571) 272-0832.

The official fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/David J. Blanchard/ Primary Examiner, A.U. 1643